

Powerful. Proven. Enduring.

For the past seven years, iRobot's flagship mobile robot, the mighty B21, has been the platform of choice for roboticists who need a research tool that's uncompromising in its endurance, power, versatility and commanding technological lead. Capable of carrying up to three onboard computers along with its rich sensor arrays, and able to keep on going strong for up to 6 hours at a stretch, the B21r delivers the smarts you need for your most complex and demanding projects. The B21r sets a fine example for the other members of iRobot's Research Robot family by taking advantage of iRobot's revolutionary rFLEX™ Robot Control Architecture and the Mobility™ Robot Integration Software package.

Whether your research involves navigation, mapping, vision, human-robot interaction or other cutting-edge topics, iRobot will be happy to assist you in configuring a B21r platform -- the industry's most capable and flexible platform for advanced indoor robotics research -- to suit your needs exactly.



B21r

Sonar:	48 (24 enclosure, 24 base)
IR:	24 (surround enclosure)
Tactile:	56 (24 enclosure, 32 base)
CPU:	Pentium based system
Batteries	4 lead acid, 1440W-hr total
Run Time:	Up to 6 hours (loaded)
Charge Time:	4 hours (w/system off)
Translate Speed:	90 cm/s (35"/s)
Rotate Speed:	167°/s
Translate Encoder Res.	650 counts per inch
Rotate Encoder Res.	154.5 counts per degree
Motor:	4 high torque, 24V DC servo
Drive:	4-wheel synchronous
Payload:	90 kg (198 lbs)
Diameter:	52.5 cm (21")
Height:	106 cm (41.7")
Weight:	122.5 kg (270 lbs)
Color:	Research Robot Red or special
Warranty:	2 years parts and labor

Accessories

- Computer Upgrades
- Processor and Memory Upgrades
- Wireless Communications
- 1 to 3Mbps Radio Ethernet
- Vision Systems
- High Performance Stereo Vision System
- PTZ Vision System
- Vision Components
- Cameras
- Frame Grabbers
- Pan-Tilt Unit
- Navigation Sensors
- SICK PLS Laser Scanner
- Electronic Compass
- Speech Interfaces
- ASCII to Speech PCI Card
- ASCII to Speech RS-232 Box
- Replacement Battery Pack

iRobotTM
Research Robots Division

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